FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS AS Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufa	actured and cert	illed by		_	3(0) 6-6					OFF	CITELEICO III	C.) 55	~ ·	2 300	el J.E.,	Calga	ary, AB T	2A 6A8
2anufa	actured for						Press	on Man			nd address of Man 2103 - 8 th Stre				-4			
					-		11033	OII Main	(Nam	e and a	ddress of Purchase	et Nisi	(U, AE	1927	E1			
3. Locatio	on of installation						And	erson Ex	ploration			100	D.#10-	08-64-1	IO-W6M			
4. Type			Но	rizont	al					(Na	ame and address)							
//٢٠		-	(Horiz.,		222		-	(Tank	Heat Ex		ger heat exh.,etc.)		-				3503B	
1	P5904	1.2					01-350	3 Rev.2		ressei,	neat exit, etc.)					(Mfg's	serial No.)	001
2	(CRN							ing No.)		1000000		()	lat'i. Bd	No.)		-		r Built)
D. ASME	Code, Section \	/III, Div	. 1			1998- Edition and Ad		-1-1		-	•						_	
items 6-11	incl. to be c	omple	ted for	single							Code Case exchangers, or		100		Spec	ial Service	e per UG-120)(d)
6. Shelt	(a) No. of Cours	e(s):				5		_ (b)	Overall lengt	h (ft & in	.):		7° - 5 5		amber ve	ssels.		
	Course(s)					Material		Thi	ickness		Long. Joint (Cat.A	,	C:				1	
No.	Diameter, in.	Leng	th (ft & in	.)	Spec /	Grade or Type		Nom.	Corr.						nt (Cat. A,E		Heat T	reatment
4	45 3/4"		0'-0"		Care Co.	516-70N		1.250"		Туре	Full, Spot, None	- Control (1)	Туре		pot,None	Eff.	Temp.	Time
1	45 3/4"		- 5 5/8*			516-70N			1 0 000	1	Full	1.0	1_		ull	1.0	+	
			0.0.0	1	- 54	3 10-7 014		1.250"	1/16"	1	Full	1.0	1_	F	ull	1.0	-	-
'. Heads:	(a)	-			-	•		<u> </u>		L		J		l			1	
· rieaus;	(a)	6.			(Maři Sa	ec. No., Grad	le or Tue-	NHT TO	. P.T.		(b)	-			-			
	T 12 25 6	. 1	Thic	iness		adius	e or Type,) H. I IIM	e & Temp.				(Mat'l	Spec. No.	., Grade or	Type) H.	T Time & Te	mp.
	Location (1				_	T	Elli	iptical	Conical	Н	lemispherical	F	at	Side to	Pressure		Category	Α
(*)	Bottom, Er	ids)	Min.	Соп.	Crown	Knuckle	R	atio	Apex Angle	-	Radius	Diar	neter	Convex	Concave	Туре	Full,Spot,	None Eff
(a) (b)										-								
e ofعر If bar, gi	able, bolts used jacket ve dimensions	l (desci	ribe other	fastenin	-	t max, temp.	150			_ Ja	(Mari Spec. No., vacket closure			(Descri	be as oge	. If bolt	ed, describe	
Je of If bar, gi MAWP Impact t Hydro.,p ems 12 ar Tubeshe	ve dimensions 1 (in est	l000 ternal) est pres omplet	s. sed for t	(extern	psia) ctions.	Dia	(internation) 1300 ps	(Indicate	e yes or no ar	npt pe	F Min. design Proof test The in.	ct tested	1/8** 1/8.	(Descri	-20	If bolt	ed, describe of	900 psi
Je of If bar, gi If ba	ve dimensions 1 (in est neu., or comb.te and 13 to be conet:	l000 ternal) est pres omplet	s. SAS	(extern	psia) ctions.		(internation of the first firs	(Indicates) (Indic	No, exer	npt pe	F Min. design er UCS-66(a). proponent(s) impact Proof test 50* thk in.	n metal to	1/8** Tr. Allow	(Descri		of bolt	Welded	psi.
Je of If bar, gi If ba	ve dimensions 1 (in est neu., or comb.te and 13 to be conet:	Steen No.)	s. S. Sationary ((externumber set) (externumber set) (16-70) (Mari Spo	psia) ctions.	Dia	(internation of the first firs	(Indicates Si 3/4**	No, exer	npt pe	Proof test This in.	ct tested	1/8" rr. Allow	(Descri		eff bolt	Welded ment (welded sachment Straight	or bolted)
Je of If bar, gi MAWP I. Hydro.,peems 12 ar Tubeshe	est est:	Steec. No.)	s. SAS ationary ((externulube see 16-70) Mari Spo	psi a al) ctions. V ec. No.)	Dia. Dia., in.	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) (Indic	No, exer e yes or no ar ss.)	npt pe	Proof test 50° thk. in. Co BWG M/W thk., in. or gauge	t tested	1/8** Tr. Allow	(Descri		eff bolt	Welded	or bolted)
the bar, gi	ve dimensions 1 (in est neu., or comb.te and 13 to be conet:	(1000) Iternal) Iternal) Storm plet Storm No.) Mat'	s. SAS ationary ((externulube see 16-70) Mari Spo	psi a al) ctions. V ec. No.) e or Type	Dia. Dia., in.	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) (Indic	No, exer e yes or no ar ss.)	npt pe	Proof test SOW thk, in, or gauge largers,	t tested	1/8" rr. Allow	(Descri		eff bolt	Welded ment (welded sachment Straight	or bolted)
if bar, gi if bar, gi if MAWP 0. Impact t 1. Hydro.,p iems 12 ar 2. Tubeshe Fic 3. Tubes:	ye dimensions 1 (in est neu_or comb te nd 13 to be conet: pating (Mar'l Spe	(1000) Iternal) Iternal) Storm plet Storm No.) Mat'	s. SAS ationary ((externulube see 16-70) Mari Spo	psi a al) ctions. V ec. No.) e or Type	Dia., in.	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) (Indic	No, exer e yes or no ar s.) Nom. thk., ir nets of hea	npt pe 3.2: Nom. t Nom. t t excha	Proof test SWG M/W thk, in, or gauge	t tested	1/8** rr. Allow , in.	(Descri	-20	Attach	Welded ment (welded achment Straight ype (Straight	or bolted)
the bar, gi	packet ve dimensions 1 (in est neu_or comb.te and 13 to be conet: pating (Mat'l Spe	Storm No.) Mat' omple	s. SAS ationary ((extern ube se 16-70 Mari Spo A 179 o., Gradd	psi a al) ctions. V ec. No.) e or Type hambers	Dia., in. of Jacketed 2	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) 3/4" ject to pres 4" , in. (b) (No, exer e yes or no ar e yes or no ar ss.) Nom. thk., ir nels of hea Overall length	npt pe	Proof test thk. in. Co BWG M/W cong. Joint (Cat A)	ct tested	1/8" rr. Allow , in. 11 Nun	(Descri	-20 3' - 0" (Cat A,B	Attach	Welded ment (welded sachment Straight	or bolted)
Je of If bar, gi If ba	est ating (Mari Spe	(1000) Iternal) Iternal) Storm plet Storm (No.) Mat's Complete	SAS SAS ationary ((extern ube se 16-70 Mari Spo A 179 o., Gradd	psi a al) ctions. V ec. No.) e or Type hambers M Spec./G	Dia., in. of Jacketed 2	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) (Indic	No, exer e yes or no ar ess) Nom. thk., ir nels of hea Overall length ckness Corr.	npt pe 3.2: Nom. t Nom. t t excha (ft & in.)	Proof test SOW thk, in, or gauge lingers, cong. Joint (Cat A) Full, Spot None	Co	1/8" T. Allow in. 11 Nun Circi	(Descri	-20 3' - 0" (Cat A,B	Attach	Welded ment (welded achment Straight ype (Straight	or bolted)
Je of If bar, gi If ba	packet ve dimensions 1 (in est neu_or comb.te and 13 to be conet: pating (Mar'l Spe 3 Incl. to be conet) Course(s) Diameter, in.	(1000) Iternal) Iternal) Storm plet Storm (No.) Mat's Complete	s. SAS ationary (SI Spec. N eted for	(extern ube se 16-70 Mari Spo A 179 o., Gradd	psi a al) ctions. V ec. No.) e or Type hambers M Spec./G	Dia., in. of Jacketed 2	(intern. 1300 ps 45 : ., in. (sub)	(Indicates) 3/4" ject to pres 4" , in. (b) (No, exer e yes or no ar ess.) Nom. thk., ir nels of hea Overall length	npt pe	Proof test thk. in. Co BWG M/W cong. Joint (Cat A)	ct tested	1/8" rr. Allow , in. 11 Nun	(Descri	-20 3' - 0" (Cat A,B	Attach	Welded ment (welded achment Straight ype (Straight	or bolted)
Je of If bar, gi If ba	est ating (Mat'l Special Spec	(1000) Iternal) Iternal) Storm plet Storm (No.) Mat's Complete	s. SAS ationary (SI Spec. N eted for	(extern ube se 16-70 Mari Spo A 179 o., Gradd	psi a al) ctions. V ec. No.) e or Type hambers M Spec./G	Dia., in. of Jacketed 2 laterial irade or Type	1300 p: 45 : 1., in. (sub	(Indicates is	No, exer e yes or no ar ess) Nom. thk., ir nels of hea Overall length ckness Corr.	npt pe 3.2: Nom. t Nom. t t excha (ft & in.)	Proof test SWG M/W thk, in, or gauge ingers, cong, Joint (Cat A) Full, Spot None Full	Co	1/8" T. Allow in. 11 Nun Circi	(Descri	-20 3' - 0" (Cat A,B	Attach	Welded ment (welded achment Straight ype (Straight) Heat Tre	or bolted) or U)
Je of If bar, gi If ba	packet ve dimensions 1 (in est neu_or comb.te and 13 to be conet: pating (Mar'l Spe 3 Incl. to be conet) Course(s) Diameter, in.	(1000) Iternal) Iternal) Storm plet Storm (No.) Mat's Complete	s. SAS ationary (SI Spec. N eted for	(extern ube se 16-70 Mari Spo A 179 o., Gradd	psi a al) ctions. V ec. No.) e or Type hambers M Spec /G SA5	Dia., in. of Jacketed 2 laterial irade or Type 116-70N	1300 p: 45 : 1., in. (sub 3/ O.D vessels	(Indicates is	No, exere e yes or no are e ye	npt pe	Proof test SOW thk, in, or gauge lingers, cong. Joint (Cat A) Full, Spot None	Co rr. Allow	1/8" Tr. Allow , in. 11 Nun Circe Type 1	(Descri	-20 3' - 0" (Cat A,B, ot None)	Attach	Welded ment (welded sachment Straight ype (Straight Temp.	or bolted)
Je of If bar, gi If ba	packet ve dimensions 1 (in est neur, or combite and 13 to be conet: Dating (Mat'l Spe Sincl. to be consect Course(s) Diameter, in. 45 3/4** (a)	(1000 ternal) Instruction of the state of t	S. SAS ationary (S. I Spec. Neted for	(extern ube se 16-70! Mari Spo O., Grade Inner c	psi a al) ctions. V ec. No.) e or Type hambers M Spec /G SA5	Dia., in. of Jacketed 2 laterial irade or Type 116-70N SA51	1300 p: 45 : 1., in. (sub 3/ O.D vessels	(Indicates is	No, exere e yes or no are e ye	npt pe	Proof test SWG M/W thk, in, or gauge ingers, cong, Joint (Cat A) Full, Spot None Full	Co rr. Allow	1/8" Tr. Allow , in. 11 Nun Circe Type 1	(Descri	-20 3' - 0" (Cat A,B, ot None)	Attach	Welded ment (welded sachment Straight ype (Straight of Temp	or bolted)
Je of If bar, gi If ba	packet ve dimensions 1 (in est neur, or combite and 13 to be conet: pating (Mat'l Spe 3 Incl. to be conet: Course(s) Diameter, in. 45 3/4" (a) Location (To	st press properties of the state of the stat	s. ted for the SAS attionary (SAS attionary (SAS attionary (Thicker Thicker	(extern ube sec 16-701 Mari Spo O., Grade Inner c	psi a al) ctions. V ec. No.) e or Type hambers M Spec./G SA5	Dia., in. of Jacketed 2 laterial irade or Type 116-70N SA51	1300 p: 45 : 1., in. (sub 3/ O.D vessels	(Indicates) (Indic	No, exere e yes or no are e ye	npt pe	Proof test SWG M/W thk, in, or gauge ingers, cong, Joint (Cat A) Full, Spot None Full	Co rr. Allow	1/8" T. Allow In. Circi Type 1 (Mat'l S	(Descri	-20 3' - 0" (Cat A,B ot None III	Attach	Welded ment (welded sachment Straight ype (Straight Temp.	or bolted) or U)
Je of If bar, gi If ba	packet ve dimensions 1 (in est neu_or combite and 13 to be conet: pating (Mar'l Spe Bincl. to be conet: Course(s) Diameter, in. 45 3/4" (a) Location (To Bottom, End	st press properties of the state of the stat	SAS ationary (SAS ationary (SAS I Spec. Noted for	(extern ube sec 16-70! Mari Spo O., Gradd Inner c	psi a al) ctions. V ec. No.) e or Type hambers M Spec /G SA5	Dia., in. of Jacketed 2 laterial irade or Type 116-70N SA51	(intern. 1300 ps 45 i. in. (sub) O.D vessels 66-70N.I	(Indicate si all all all all all all all all all al	No, exer e yes or no ar es.) Nom. thk., ir nels of hea Overall length ckness Corr. 1/16"	npt pe	Proof test 50" thk in. Co BWG M/W thk, in. or gauge langers. Cong. Joint (Cat A) Full (b)	Corr. Allow	1/8" rr. Allow , in. 11 Nun Circi Type 1	(Descri	-20 3' - 0" (Cat A,B ot None III	Attach	Welded ment (welded achment Straight ype (Straight Temp Time & Ter Category A	or bolted)
the part of the pa	packet ve dimensions 1 (in est neur, or combite and 13 to be conet: pating (Mat'l Spe 3 Incl. to be conet: Course(s) Diameter, in. 45 3/4" (a) Location (To	st press properties of the state of the stat	SAS ationary (SAS at	(extern ube sec 16-701 Mari Spo O., Grade Inner c	psi a al) ctions. V ec. No.) e or Type hambers M Spec./G SA5	Dia., in. of Jacketed 2 laterial irade or Type 116-70N SA51	(intern. 1300 ps 45: 1, in. (sub) O.D Vessels 6-70N.I or Type)	(Indicate si all all all all all all all all all al	No, exer e yes or no ar es.) Nom. thk., ir nels of hea Overall length kness Corr. 1/16" & Temp. Conical	npt pe	Proof test 50* thk in. Co BWG M/W thk, in, or gauge largers, Cong. Joint (Cat A) Full, Spot None Full (b)	Co rr. Allow Fla	1/8" Tr. Allow , in. 11 Nun Circe Type 1	(Descri	-20 3' - 0" (Cat A,B, ot None till SA516-7 Grade or 1 Pressure	Attach Attach Attach ON.I.T. Type) H.T.	Welded ment (welded achment Straight ype (Straight Temp.	or bolted)

nact test		V. Control Section 1		Yes, required o							
pact test											
	-	-			(Indicate yes or	no and the cor	nponent(s) impact	tested)			
dro., pneu., or comb.	test n	ess		1300 ps	si		Proof test _			-	
									100		
ozzles, inspection, an	d safel	y valve openir		Mater	leh	Nozzle	Thickness	Reinforcement	How at	tached	Location
Purpose		Diameter	Flange	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
t, Cuttet, Drain, etc.)	No.	or Size 18" 600#	Type RFWN	SA516-70N	SA105-N	.625"	1/16"	SA516-70N	UW16.1c		Bottom Shell
Shell Inlet	1	18" 600#	RFWN	SA516-70N	SA105-N	.625"	1/16"	SA516-70N	UW16.1c		Top Shell Top Channel
Shell Outlet	1	18" 600#	RFWN	SA516-70N	SA105-N	.625"	1/16"	SA516-70N	UW16.1c		Bottom Channel
Channel Inlet	1	18" 600#	RFWN	SA516-70N	SA105-N	.625"	1/16"	SA516-70N	UW16.1c	Welded	Top/Bottom Chann
Vent / Drain	2	3/4" 6000#	CPLG	SA105-N	-	.414"	1/16"	None	UW16.1a		Channel Covers
	1 1	1" 6000#	CPLG	SA105-N		.555**	1/16"	None	UW16.1a		Nozzles
Glycol Injection	2	3/4" 6000#	CPLG	SA105-N		.414"	1/16"	None	UW16.1c	-	Nozzles
T.I.'s	2	3/4" 6000#	CPLG	SA105-N		.414"	1/16"	None	UW16.10		MOZZIES
, P.I.'s	+									-	
	-	-							_		
	-								-		
	+-	+								1	
	1		ugs N/A	Legs	N/A o	ther	Saddles	Attached			to Shell
upports:	Ski	t No 1	ugs N/A (No.)		(No.)	S0400 0	(Describe)			(Where	and how)
SAFETY VALV SURFACE ARE	A:	-	3.43 sq.ft.	er UG-125 3(g) t	400				.27 cu.ft.		
SAFETY VALV SURFACE ARE SERVICE: ITEM#:	A: Ga E-	10488 is / Gas E) 1402B	3,43 sq.ft. cchanger	C	Const	ructed to D	rawing #01-3	503 Rev.5			
SAFETY VALV SURFACE ARE SERVICE: ITEM#:	A: Ga E-	10488 is / Gas E) 1402B	3,43 sq.ft. cchanger	C	Const	ructed to D	rawing #01-3	503 Rev.5		to the	
SAFETY VALV SURFACE ARE SERVICE: ITEM #:	A: Ga E-	10488 1s / Gas E) 1402B ents made in	3.43 sq.ft. cchanger this report are c	Correct and that all d	Const	ructed to D	rawing #01-3			to the	
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pres	A: Ga E- tatem	10488 is / Gas E) 1402B ents made in Vessels, Sec	3.43 sq.ft. cchanger this report are c	Correct and that all d	Const ERTIFICATE OF letails of design, r	ructed to D	rawing #01-3	503 Rev.5		to the	
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Prei U Certificate of Aut	A: Ga E- tatem horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No.	3.43 sq.ft. cchanger this report are c	Correct and that all d	Const	ructed to D SHOP COMP material, cons	Trawing #01-3: LIANCE truction, and wor	503 Rev.5	sel conform	che	riste"
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pres U Certificate of Aut	A: Ga E- tatem horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No.	3.43 sq.ft. cchanger this report are c	Correct and that all don 1. 5983	Const EERTIFICATE OF letails of design, r	ructed to D SHOP COMP material, cons	Trawing #01-3: LIANCE truction, and wor	503 Rev.5	sel conform	to the	isti`
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre: U Certificate of Aut Date Oct. 15,	A: Ga E- tatem ssure horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No.	this report are c	correct and that all d in 1. 5983 manger Industries (/	Const ERTIFICATE OF letails of design, r A Division of Pre	SHOP COMP material, cons Expires emetalco Inc.)	LIANCE truction, and wor March 30 Signed A	kmanship of this vest	sel conform	resentativ	isti`
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre- U Certificate of Aut Date Ock 15,	A: Ga E- tatem ssure horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No.	this report are c	correct and that all d in 1. 5983 manger Industries (/	Const ERTIFICATE OF letails of design, r A Division of Pre	SHOP COMP material, cons Expires emetalco Inc.)	LIANCE truction, and wor March 30 Signed A	kmanship of this vest	sel conform	resentativ	
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre- U Certificate of Aut Date Ock 15,	A: Ga E- tatem ssure horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No.	this report are of the VIII, Division Excl	correct and that all d in 1. 5983 hanger Industries (Mai	Const ERTIFICATE OF letails of design, r A Division of Pre nufacturer) CERTIFICATE OF rd of Boiler and P	SHOP COMP material, cons Expires emetalco Inc.)	LIANCE truction, and wor March 30 Signed a ECTION el Inspectors and	kmanship of this vest	sel conform 02 (Rep	resentativ BERTA	have inspected
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre: U Certificate of Aut Date Ock 15, I, the undersigned, and employed by	A: Ga E- tatem horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No. Nat	this report are of tion VIII, Division me Excl	correct and that all d in 1. 5983 manger Industries (A (Mar by the National Boa	Const ERTIFICATE OF letails of design, r A Division of Pre nufacturer) CERTIFICATE OF ard of Boiler and P	SHOP COMP material, cons Expires emetalco Inc.)	LIANCE truction, and wor March 30 Signed a ECTION el Inspectors and	kmanship of this vest 20	sel conform 02 (Rep	BERTA my know	have inspected rledge and belief, th
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre: U Certificate of Aut Date Ock 15, I, the undersigned, and employed by the pressure vessel	A: Ga E- tatem horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No. National Section No. 2 National Section No.	this report are of tion VIII, Division me Excl	correct and that all d in 1. 5983 manger Industries (// (Mar	Const ERTIFICATE OF letails of design, r A Division of Pre nufacturer) CERTIFICATE OF ard of Boiler and P	SHOP COMP material, cons Expires emetalco Inc.)	March 30 Signed A ECTION el Inspectors and CAL Signed A C	kmanship of this vesting the State or Proving ARY, ALBERTA	sel conform 22 (Rep nce of AL o the best of	BERTA f my know	have inspected rledge and belief, th or nor his employe
SAFETY VALV SURFACE ARE SERVICE: ITEM #: We certify that the s ASME Code for Pre: U Certificate of Aut Date Ock 15, I, the undersigned, and employed by the pressure vessel	A: Ga E- tatem horiza	10488 IS / Gas E) 1402B ents made in Vessels, Section No. National Section No. 2 National Section No.	this report are of tion VIII, Division me Excl	correct and that all d in 1. 5983 manger Industries (// (Mar	Const ERTIFICATE OF letails of design, r A Division of Pre nufacturer) CERTIFICATE OF ard of Boiler and P	SHOP COMP material, cons Expires emetalco Inc.)	March 30 Signed A ECTION el Inspectors and CAL Signed A C	kmanship of this vesting the State or Proving ARY, ALBERTA	sel conform 22 (Rep nce of AL o the best of	BERTA f my know	have inspected rledge and belief, th or nor his employe
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Commissions

(Authorized Inspector)

(Nat'l Board incl. endorsement, State, Province and No.)